

# Sung-Young Shin

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,292  
citations

516215

16  
h-index

414034

32  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1955  
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive- and negative-feedback regulations coordinate the dynamic behavior of the Ras-Raf-MEK-ERK signal transduction pathway. <i>Journal of Cell Science</i> , 2009, 122, 425-435.	1.2	162
2	Functional Roles of Multiple Feedback Loops in Extracellular Signal-Regulated Kinase and Wnt Signaling Pathways That Regulate Epithelial-Mesenchymal Transition. <i>Cancer Research</i> , 2010, 70, 6715-6724.	0.4	138
3	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. <i>Nature Communications</i> , 2019, 10, 5486.	5.8	89
4	Investigations Into the Analysis and Modeling of the TNF $\alpha$ -Mediated NF- $\kappa$ B-Signaling Pathway. <i>Genome Research</i> , 2003, 13, 2413-2422.	2.4	80
5	Modelling Spatially Regulated $\beta$ -Catenin Dynamics and Invasion in Intestinal Crypts. <i>Biophysical Journal</i> , 2010, 99, 716-725.	0.2	66
6	The crossregulation between ERK and PI3K signaling pathways determines the tumoricidal efficacy of MEK inhibitor. <i>Journal of Molecular Cell Biology</i> , 2012, 4, 153-163.	1.5	65
7	Targeting of PYK2 Synergizes with EGFR Antagonists in Basal-like TNBC and Circumvents HER3-Associated Resistance via the NEDD4 $\beta$ -NDRG1 Axis. <i>Cancer Research</i> , 2017, 77, 86-99.	0.4	63
8	The switching role of $\beta$ -adrenergic receptor signalling in cell survival or death decision of cardiomyocytes. <i>Nature Communications</i> , 2014, 5, 5777.	5.8	59
9	A hidden incoherent switch regulates RCAN1 in the calcineurin $\beta$ -NFAT signaling network. <i>Journal of Cell Science</i> , 2011, 124, 82-90.	1.2	45
10	MLK3 Is Part of a Feedback Mechanism That Regulates Different Cellular Responses to Reactive Oxygen Species. <i>Science Signaling</i> , 2014, 7, ra52.	1.6	45
11	Switching feedback mechanisms realize the dual role of MCIP in the regulation of calcineurin activity. <i>FEBS Letters</i> , 2006, 580, 5965-5973.	1.3	34
12	The hidden switches underlying ROR $\alpha$ -mediated circuits that critically regulate uncontrolled cell proliferation. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 338-348.	1.5	27
13	Systems modelling of the EGFR-PYK2-c-Met interaction network predicts and prioritizes synergistic drug combinations for triple-negative breast cancer. <i>PLoS Computational Biology</i> , 2018, 14, e1006192.	1.5	26
14	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. <i>ELife</i> , 2021, 10, .	2.8	21
15	Signaling Heterogeneity is Defined by Pathway Architecture and Intercellular Variability in Protein Expression. <i>IScience</i> , 2021, 24, 102118.	1.9	19
16	Run-to-Run Overlay Control of Steppers in Semiconductor Manufacturing Systems Based on History Data Analysis and Neural Network Modeling. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2005, 18, 605-613.	1.4	18
17	Feedback, Crosstalk and Competition: Ingredients for Emergent Non-Linear Behaviour in the PI3K/mTOR Signalling Network. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6944.	1.8	17
18	Unveiling Hidden Dynamics of Hippo Signalling: A Systems Analysis. <i>Genes</i> , 2016, 7, 44.	1.0	15

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19	System-level investigation into the regulatory mechanism of the calcineurin/NFAT signaling pathway. <i>Cellular Signalling</i> , 2008, 20, 1117-1124.	1.7	14
20	Control of Glucocorticoid Receptor Levels by PTEN Establishes a Failsafe Mechanism for Tumor Suppression. <i>Molecular Cell</i> , 2020, 80, 279-295.e8.	4.5	14
21	Dynamic modelling of the PI3K/MTOR signalling network uncovers biphasic dependence of mTORC1 activity on the mTORC2 subunit SIN1. <i>PLoS Computational Biology</i> , 2021, 17, e1008513.	1.5	14
22	Dissecting Cell-Fate Determination Through Integrated Mathematical Modeling of the ERK/MAPK Signaling Pathway. <i>Methods in Molecular Biology</i> , 2017, 1487, 409-432.	0.4	13
23	Dynamical analysis of the calcium signaling pathway in cardiac myocytes based on logarithmic sensitivity analysis. <i>Biotechnology Journal</i> , 2008, 3, 639-647.	1.8	11
24	Cardiac Systems Biology and Parameter Sensitivity Analysis: Intracellular Ca <sup>2+</sup> Regulatory Mechanisms in Mouse Ventricular Myocytes. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2008, 110, 25-45.	0.6	8
25	Multiscale Modeling of Tumorigenesis Induced by Mitochondrial Incapacitation in Cell Death. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 3028-3032.	2.5	8
26	Coupled feedback regulation of nuclear factor of activated T-cells (NFAT) modulates activation-induced cell death of T cells. <i>Scientific Reports</i> , 2019, 9, 10637.	1.6	8
27	ELECANS – an integrated model development environment for multiscale cancer systems biology. <i>Bioinformatics</i> , 2013, 29, 957-959.	1.8	4
28	A Regulated Double-Negative Feedback Decodes the Temporal Gradient of Input Stimulation in a Cell Signaling Network. <i>PLoS ONE</i> , 2016, 11, e0162153.	1.1	3
29	Unravelling the functional interaction structure of a cellular network from temporal slope information of experimental data. <i>FEBS Journal</i> , 2005, 272, 3950-3959.	2.2	2
30	Simulation Study of the TNF $\alpha$ Mediated NF- $\kappa$ B Signaling Pathway. <i>Lecture Notes in Computer Science</i> , 2003, , 171-171.	1.0	1